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APPLICATION NO.	NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/038,355	01/04/2002	Scott Geng	112153.126	7029		
75	10/05/2004		EXAM	INER		
Peter M. Dichiara			IQBAL, NADEEM			
Hale and Dorr I 60 State Street	CLP		ART UNIT	PAPER NUMBER		
Boston, MA ()2109		2114			
			DATE MAILED: 10/05/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

OCT 2 9 2004

Technology Center 2100

	Application No.	Applicant(s)				
	10/038,355	GENG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nadeem Iqbal	2114				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 04 J	lanuary 2002.					
2a) This action is FINAL . 2b) ☑ Thi	s action is non-final.	ļ				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		*				
4) ⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,4,5 and 7-10 is/are rejected. 7) □ Claim(s) 3 and 6 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examin						
10) The drawing(s) filed on is/are: a) ac						
Applicant may not request that any objection to the	- · ·					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date Jul 28, 2003.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informat P 6) Other:					

Sheet Subt. For, PTO-1449 INFORMA IN A (Use sev.

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INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

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Application Number 10/038,355

Applicant

Scott Geng, et al

Filing Date

January 4, 2002

Group Art Unit 2152

U.S. Patent Documents NAME CLASS **EXAMINER** DOCUMENT DATE SUBCLASS **FILING DATE** INITIAL NUMBER IF APPROPRIATI NI 6,091,732 07/18/00 Alexander, Jr. et al 1 6,178,171 01/23/01 Alexander, Jr. et al. JUL 2 8 20D3 N 10/06/98 5,818,842 Burwell et al. NI 5,835,725 11/10/98 Chiang et al. Hechnology Center 2100 NI 5,825,772 10/20/98 Dobbins et al. 5,208,811 05/04/93 Kashio et al. NI 12/14/99 Kawasaki NI 6,003,137 N 5,590,285 12/31/96 Krause et al. NI 5,535,338 07/09/96 Krause et al. NI 02/27/01 6,195,705 Leung Li et al. NI 5,473,599 12/05/95 NI 5,970,066 10/19/99 Lowry et al. Foreign Patent Documents DATE COUNTRY CLASS TRANSLATION **EXAMINER** DOCUMENT SUBCLASS **NUMBER** INITIAL YES NO Other Documents (Including Author, Title, Date Pertinent Pages, Etc.) EXAMINER DATE CONSIDERED 9,29-04

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through

citation if not conformance and not considered. Include copy with next communication to applicant.



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Rih Data Sheet

CONFIRMATION NO. 7029

SERIAL NUME 10/038,355		FILING DATE 01/04/2002 RULE	C	709	GROUP ART UNIT 2152		ATTORNEY DOCKET NO. 112153.126		
APPLICANTS Scott Geng, Westboro, MA; Pete Manca, Sterling, MA; Paul Curtis, Sudbury, MA; Ewan Milne, Stow, MA; Max Smith, Natick, MA; Alan Greenspan, Northboro, MA; Edward Duffy, Arlington, MA; Peter Schulter, Hampstead, NH; ** CONTINUING DATA **********************************									
Foreign Priority claims 35 USC 119 (a-d) cond met Verified and Acknowledged	ditions	yes no Met after	er ials	STATE OR COUNTRY MA	DRA	ETS WING 4	TOT/ CLAII 10	MS	INDEPENDENT CLAIMS 4
ADDRESS Peter M. Dichiara Hale and Dorr LL 60 State Street Boston ,MA 0210	.P								
Service clusters and method in a processing system with failover capability									
RECEIVED				NT	All Fees 1.16 Fees (Filing) 1.17 Fees (Processing Ext. of time) 1.18 Fees (Issue) Other Credit				

Applicant(s)/Patent Under Application/Control No. Reexamination 10/038,355 GENG ET AL. **Notice of References Cited** Art Unit Examiner Page 1 of 1 2114 Nadeem Iqbal **U.S. PATENT DOCUMENTS** Date Document Number Classification Name MM-YYYY Country Code-Number-Kind Code 709/239 Hebert, James E. 04-2004 US-6,728,780 B1 714/4 07-2004 Hebert, James E. US-6,763,479 B1 В 714/5 03-1993 Blount et al. US-5,197,148 A С 714/4 Bouchier et al. 01-2004 US-6,684,343 B1 D US-Ε F US-G US-US-Н US-J US-US-Κ L US-US-М FOREIGN PATENT DOCUMENTS Date **Document Number** Classification Country Name Country Code-Number-Kind Code MM-YYYY Ν 0 Ρ Q R S Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U W Х

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Application/Control Number: 10/038,355

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1, 4, 7, 9, 8 & 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Hebert (U.S. Patent Number 6728780).
- 2. As per claims 1 & 4, Hebert teaches (col. 2, lines 63-65) a network node which includes a first network interface, a second network interface, and a high availability networking mechanism that operates at the application layer and is configured to configure a backup interface. He thus teaches limitations pertain to a plurality of computer processors connected to an internal communication network, configuration logic to define and establish a virtual local area communication network over the internal network. He also teaches (col. 5, lines 37-39) that each host interface includes a MAC address. He thus teaches limitations pertain to each computer processor in the virtual local area communication network has a corresponding virtual MAC address and provides communication among a set of computer processors. Hebert also teaches (col. 2, lines 32-35) a method and mechanism failover with warm standby. He also teaches that a network connection may be utilized in the event of a failure or a primary connection. He also teaches to configure a secondary network connection with dummy parameter, monitors the primary network connection, automatically detected a failure in the

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primary connection, and switches to the secondary connection in a short period of time. He thus teaches limitations pertains to failover logic, responsive to a failure by a computer processor, to allocates a computer processor from the plurality to replace the failed processor.

- 3. As per claims 7 & 9, Hebert teaches (col. 5, lines 12-15) TCP/IP communications protocol and that each host connected to a network has an assigned logical address, or an IP address. He also teaches that (col. 5, lines 16-18) when one host wishes to convey data to another host, packets are formed which contain the data and the IP address of the destination host and the packets are then delivered to the desired destination. He thus teaches cluster logic for receiving a request message for the service, the messages having the IP address, and for distributing the request to one of the at least two computer processors having logic to provide the service.
- 4. As per claims 8 & 10, He teaches as stated above the logic for distributing, since he teaches that when one host wishes to convey data to another host, packets are formed which contain the data and the IP address of the destination host and the packets are then delivered to the desired destination.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 7. Claims 2, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hebert (U.S. Patent Number 6728780).
- 2. As per claims 2 & 5, He does not explicitly discloses virtual interfaces to define software communication paths among processor of the virtual network and that failover logic includes logic to establish virtual interfaces from the processors in the virtual network to the processor that replaces the failed processor. He teaches (col. 2, lines 37-42) to utilize an application layer mechanism which configures a secondary network connection with dummy parameters, monitors the primary network connection, automatically detects a failure in the primary connection, and switches to the secondary connection in a short period of time. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to realize that He would include virtual interfaces to define software communication paths among processors of the virtual network, since He teaches to utilize an application layer mechanism which configures a secondary network connection with dummy parameters, and automatically detects a failure in the primary connection, and switches to the secondary connection in a short period of time, thereby, clearly define software communication paths among processor of the virtual network.

Allowable Subject Matter

8. Claims 3 & 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadeem Iqbal whose telephone number is (703)-308-5228 (After Oct. 15, My New telephone number is (571)-272-3659 and The Tech. Center Main number would be (571) 272-2100). The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W Beausoliel can be reached on (703)-305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Nadeen Iqbal Primary Examiner Art Unit 2114

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